

Ver. 250501

Protease inhibitor cocktail (100X)

P6730

Introduction

Crude cell extracts contain a number of endogenous enzymes, such as proteases and phosphatases, which are capable of digesting the proteins present in the extract. Protease Inhibitor Cocktail (100X) is a Western blot related ready-to-use concentrated stock solution reagent containing a blend of seven protease inhibitors that is to be added to cell lysis buffer to protect the integrity and functionality of native cellular proteins against degradation by multiple classes of endogenous proteases during protein extraction and sample preparation procedures. The product is supplied as a 100X concentrate stock solution in a liquid format for improved accuracy, solubility, and ease of use in comparison to traditional tablets.

Form

Colorless liquid

Storage

Store at -20°C in dark. for 12 months,

Recommended working concentration:

100-fold dilution in tissue lysis buffer. 10µL of the Protease Inhibitor Cocktail solution is enough to inhibit degradation of proteins in 1 mL lysate.

Protocol

- Equilibrate the contents to room temperature before use.
 - Vortex the before use to ensure a homogeneous suspension
 - This protease inhibitor cocktail is supplied at a 100X concentration in DMSO and is generally effective when used at a 1X final concentration; however, if a sample contains particularly high levels of proteases, the effective cocktail concentration may be optimization.
1. Add broad spectrum protease inhibitor cocktail in lysis buffer at a ratio of 1:100 and mix well.
 2. Optional: For inhibition of metalloproteases, add EDTA to a final working concentration of 5mM.
 3. Add the solution in to cell or tissue samples for protein extraction

Note: Lysis buffer containing protease inhibitor cocktail should be freshly prepared before use.

For further details, contact us at

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